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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,530	07/19/2004	Dan Colvin	81098388 / FMC 1741 PUS	4529
28395 BROOKS KUS	7590 07/18/2007 SHMAN P.C./FGTL	EXAMINER		
1000 TOWN CENTER			VANAMAN, FRANK BENNETT	
22ND FLOOR SOUTHFIELD, MI 48075-1238		•	ART UNIT	PAPER NUMBER
			3618	
			MAIL DATE	DELIVERY MODE
		•	07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/710,530	COLVIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Frank Vanaman	3618			
The MAILING DATE of this communication a Period for Reply	oppears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a report will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ATION. Dly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. \$ 133)			
Status					
1)⊠ Responsive to communication(s) filed on <u>09</u>	May 2007.				
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
 4) Claim(s) 1-14 and 21-26 is/are pending in the 4a) Of the above claim(s) 8-13 is/are withdra 5) Claim(s) 21-26 is/are allowed. 6) Claim(s) 1 and 14 is/are rejected. 7) Claim(s) 2-7 is/are objected to. 8) Claim(s) are subject to restriction and 	wn from consideration.				
Application Papers	·				
· · ·					
9) ☐ The specification is objected to by the Exami 10) ☐ The drawing(s) filed on is/are: a) ☐ a		v the Evaminer			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the corn					
11) The oath or declaration is objected to by the					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in Apriority documents have been received in Apriority documents have been reau (PCT Rule 17.2(a)).	plication No eceived in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		mmary (PTO-413) /Mail Date			
Notice of Draftsperson's Patent Drawing Review (P10-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		ormal Patent Application			

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Status of Application

1. Applicant's amendment, filed January 29, 2007, and the supplemental remarks filed May 9, 2007 have been entered in the application. Claims 1-14 and 21-26 are pending, with claims 21-26 being newly added. Claims 8-13 are withdrawn from consideration.

Claim Rejections - 35 USC § 102, 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1 and 14 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Boggs et al. (US 6,516,253, cited by applicant). Boggs et al. teach the determination of an engine start condition in a hybrid vehicle configuration (figure 1), including primary (20) and secondary (24) power generating systems coupled via a power transfer connection (45) and to a drive train (26, 33) to drive wheels (34), wherein the determination (figure 2, step 70) of changes in engine speed (a change in speed understood to constitute acceleration) at the engine output shaft (input to 45), greater than a predetermined amount constitute an indication that the engine is running ("yes" at step 70), and further wherein the determination that the engine is not running may be made ("no" at step 70) prior to the starting of the engine. Alternatively, the reference to Boggs et al. fail to explicitly teach that the variations of output speed of the engine shaft are timewise variation (wherein changes of speed with respect to time constitute acceleration), it would have been obvious to one of ordinary skill in the art at the time of the invention to measure the speed changes of the engine taught by Boggs et al. in a timewise manner for the purpose of determining change data within a prescribed number of loops of the operating system program.

Allowable Subject Matter

- 4. Claims 2-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 21-26 are allowed.

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Response to Comments

6. Applicant's comments, filed with the amendment, have been carefully considered. Initially, applicant describes the operation of Boggs et al. (e.g., page 9, lines 1-7) and traverses the examiner's determination that Boggs is understood to use an acceleration value. The examiner disagrees. Boggs et al. specifically monitor variations in speed (and explicitly use such a determination of a variation in speed to determine that an engine is running). Boggs et al. additionally teach that these variations are monitored by a looping program. Whether it is specifically mentioned as acceleration or not, a time-wise sampling of speed with a program monitoring variations in speed is measuring an implicit acceleration based on the variations of speed per unit time of the loop of the sampling step of the program. Alternatively, it is not deemed to be beyond the skill of the ordinary practitioner to explicitly use an acceleration value by comparing changes in speed (the measurement of which is already anticipated by Boggs et al.) with time associated with the looping of the program (which would be understood to be inherently known in association with the loop speed set in the device which executes the program), in order to improve the accuracy of the determination, or to allow the speed deviations to be compared for diagnostic purposes with other speed deviation data taken by programs operating with different loop speeds.

Applicant refers to the requisite sampling rate needed by Boggs et al. to achieve the taught measurement, however this does not appear to be related to a distinction which is set forth in the claims. Applicant has asserted that "instantaneous acceleration may be determined, for example, by taking the derivative of a speed signal, without using the speed changes in the detection method". The examiner disagrees. As applicant is well aware, a speed signal cannot be measured by a digital computing device without having been sampled, and a derivative of a single point (i.e., taking only a single speed value) cannot result in a meaningful result without information associated with at least one further sample point and the value of time elapsed between the two sample points unless the speed value can be categorized by an equation - however such an equation could not be determined by a computing device without the taking of

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plural samples - again applicant is undoubtedly well aware that a line cannot be meaningfully defined by a single point.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry specifically concerning this communication or earlier communications from the examiner should be directed to F. Vanaman whose telephone number is 571-272-6701.

Any inquiries of a general nature or relating to the status of this application may be made through either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A response to this action should be mailed to:

Mail Stop ____ Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450,

Or faxed to:

PTO Central Fax: 571-273-8300

F. VANAMAN
Primary Examiner
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